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Mis from Public Health Reports

ROCKY, MOUNTAIN, SPOTTED, FEVER: VACCINATION, OF MONKEYS, AND, MAN

By R. R. SPENCER, Surgeon, and R. R. BARRER, Special Expert, United States Public Highlik Service

In a previous publication! we have shown that guinea pigs may be successfully vaccinated against Rocky Mountain spotted fever by injections of phenolized emulsions of tick virus. Data are now submitted which (1) prove that this vaccine will also protect monkeys and (2) suggest that it will confer immunity upon man.

PREPARATION OF THE VACCINE

The production of a potent vaccine from tick emulsions is dependent upon a high concentration of virus in the ticks from which it is prepared. By the injection of decreasing amounts of emulsions of infected tick viscars into guinea pigs, the minimal infectious dose of any given emulsion may be approximately determined. After many such titrations, employing fed and unten infected ticks (D. anderson) at all stages of the life typic, it has been found that the highest concentrations of special favor virus occur two to four days after the beginning of the adult feeding.

Such ticks, usually in lots of 100, are permitted to feed three days on grinica pigs, then at ence eviscerated one by one and ground in a mortar for 10 or 15 minutes with sterile sand and a few cubic equilibrium of salt solutions. By this procedure the internal organs.

Aspencer, K., R., and Packer, J., R. Heer, Bountoin Spotted Rever, Experimental Studies of Tip City - Pap. Month Real, Nav. 28, 1826, Absorbit No. 925

The 19th Health Rept., Nov. 28, 1934. (Reprint Ma. 196)

Accurage of supplied first for the preparation of the specime. The resting of adult ticks upon which the

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October 9, 1925, pp. 2159-2167

Dr. R. R. Spencer and Dr. R. R. Parker found that a vaccine produced from tick emulsion immunized monkeys and perhaps man against Rocky Mountain spotted fever. In earlier studies, they demonstrated that this vaccine immunized guinea pigs (Public Health Reports 38: 333–339, Feb. 23, 1923, and 39: 3027–3040, Nov. 28, 1924).